

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.

Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

Page 2 of 19

Serial No.: 09/966,511

Confirmation No.: 4740

Filed: 28 September 2001

For: WATER-IN-OIL EMULSIONS WITH ETHYLENE OXIDE GROUPS, COMPOSITIONS, AND METHODS

or dispersible in the oil phase and tend to be insoluble or sparingly soluble in the water phase.

Preferred vinyl polymers are soluble in the oil phase. Certain vinyl polymers are terpolymers. —

In the Claims

Please amend claims 1, 28-29, 32, 36-38, 40-42, and 48-52. The amended claims are provided below in clean form. Per 37 C.F.R. §1.121, amended claims are also shown in Appendix A with notations to indicate changes made (for convenience, all pending claims, including those added hereby, are provided in Appendix A).

B²

1. (AMENDED) A water-in-oil emulsion comprising: a vinyl polymer comprising ethylene oxide-containing side chains and alkyl-Y-containing side chains, wherein Y is O or NR, wherein R is H or CH₃, and wherein the alkyl group of the alkyl-Y-containing side chain has at least 4 carbon atoms on average in a cyclic, branched-, or straight-chain configuration and optionally includes one or more heteroatoms; an oil phase; and a water phase; wherein the vinyl polymer is insoluble or sparingly soluble in the water phase.

B³

28. (AMENDED) A water-in-oil emulsion comprising: a vinyl polymer comprising ethylene oxide-containing side chains and alkoxy-containing side chains, wherein the alkyl group of the alkoxy-containing side chain has 4 to 50 carbon atoms on average in a cyclic, branched-, or straight-chain configuration and optionally includes one or more heteroatoms; an oil phase; and a water phase; wherein the vinyl polymer is insoluble or sparingly soluble in the water phase.

29. (AMENDED) A water-in-oil emulsion comprising: an oil phase; a water phase; and a vinyl polymer that is insoluble or sparingly soluble in the water phase;

Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

Page 3 of 19

Serial No.: 09/966,511

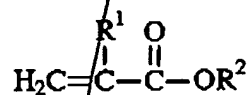
Confirmation No.: 4740

Filed: 28 September 2001

For: WATER-IN-OIL EMULSIONS WITH ETHYLENE OXIDE GROUPS, COMPOSITIONS, AND METHODS

wherein the vinyl polymer comprises the reaction product of monomers comprising:

about 60 wt-% to about 90 wt-% of at least one monoethylenically unsaturated alkyl (meth)acrylate monomer having the formula:

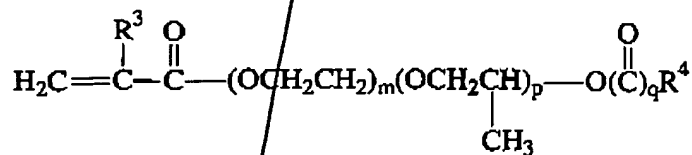


wherein:

R¹ is H or CH₃; and

R² is a linear, branched, or cyclic alkyl group optionally including one or more heteroatoms; and

about 10 wt-% to about 40 wt-% of at least one monoethylenically unsaturated poly(alkylene oxide) (meth)acrylic monomer having the formula:



wherein:

m is at least 2;

p is 0 to 50;

q is 0 or 1;

R³ is H or CH₃; and

R⁴ is hydrogen or linear or branched alkyl and/or aryl groups;

with the proviso that the isopropylene oxide groups (the "p" groups) and

Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

Page 4 of 19

Serial No.: 09/966,511

Confirmation No.: 4740

Filed: 28 September 2001

For: WATER-IN-OIL EMULSIONS WITH ETHYLENE OXIDE GROUPS, COMPOSITIONS, AND METHODS

B3
Contd

the ethylene oxide groups (the "m" groups) are arranged in a reversed, alternating, random, or block configuration;
with the proviso that the vinyl polymer includes no more than about 0.1 wt-% copolymerized acidic monomers.

- B4
32. (AMENDED) A moisturizing composition comprising a water-in-oil emulsion comprising: a vinyl polymer comprising ethylene oxide-containing side chains and alkyl-Y-containing side chains, wherein Y is O or NR, wherein R is H or CH₃, and wherein the alkyl group of the alkyl-Y-containing side chain has at least 4 carbon atoms on average in a cyclic, branched-, or straight-chain configuration and optionally includes one or more heteroatoms; an oil phase; and a water phase; wherein the vinyl polymer is insoluble or sparingly soluble in the water phase.

- B5
36. (AMENDED) A moisturizing composition comprising a water-in-oil emulsion comprising: a vinyl polymer comprising ethylene oxide-containing side chains and alkoxy-containing side chains, wherein the alkyl group of the alkoxy-containing side chain has 4 to 50 carbon atoms on average in a cyclic, branched-, or straight-chain configuration and optionally includes one or more heteroatoms; an oil phase; and a water phase; wherein the vinyl polymer is insoluble or sparingly soluble in the water phase.

37. (AMENDED) A moisturizing composition comprising a water-in-oil emulsion comprising: an oil phase; a water phase; and a vinyl polymer that is insoluble or sparingly soluble in the water phase; wherein the vinyl polymer comprises the reaction product of monomers comprising:
about 60 wt-% to about 90 wt-% of at least one monoethylenically unsaturated alkyl (meth)acrylate monomer having the formula:

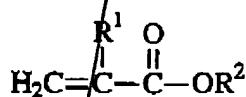
Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

Page 5 of 19

Serial No.: 09/966,511

Confirmation No.: 4740

Filed: 28 September 2001

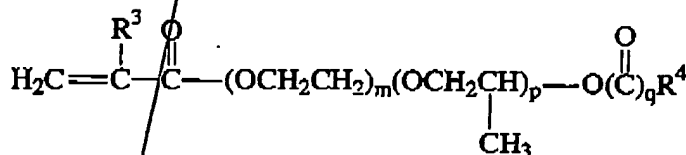
For: WATER-IN-OIL EMULSIONS WITH ETHYLENE OXIDE GROUPS, COMPOSITIONS, AND METHODS

wherein:

 R^1 is H or CH_3 ; and R^2 is a linear, branched, or cyclic alkyl group optionally including one or more heteroatoms; and

about 10 wt-% to about 40 wt-% of at least one monoethylenically

unsaturated poly(alkylene oxide) (meth)acrylic monomer having the formula:



wherein:

 m is at least 2; p is 0 to 50; q is 0 or 1; R^3 is H or CH_3 ; and R^4 is hydrogen or linear or branched alkyl and/or aryl groups;

with the proviso that the isopropylene oxide groups (the "p" groups) and the ethylene oxide groups (the "m" groups) are arranged in a reversed, alternating, random, or block configuration.

Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

Page 6 of 19

Serial No.: 09/966,511

Confirmation No.: 4740

Filed: 28 September 2001

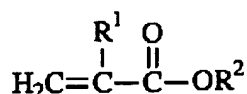
For: WATER-IN-OIL EMULSIONS WITH ETHYLENE OXIDE GROUPS, COMPOSITIONS, AND METHODS

- B5
Contd
38. (AMENDED) A tissue antiseptic composition comprising a water-in-oil emulsion comprising: a vinyl polymer comprising ethylene oxide-containing side chains and alkyl-Y-containing side chains, wherein Y is O or NR, wherein R is H or CH₃, and wherein the alkyl group of the alkyl-Y-containing side chain has at least 4 carbon atoms on average in a cyclic, branched-, or straight-chain configuration and optionally includes one or more heteroatoms; an oil phase; a water phase; and an antimicrobial; wherein the vinyl polymer is insoluble or sparingly soluble in the water phase.

- B6
40. (AMENDED) A tissue antiseptic composition comprising a water-in-oil emulsion comprising: a vinyl polymer comprising ethylene oxide-containing side chains and alkoxy-containing side chains, wherein the alkyl group of the alkoxy-containing side chain has 4 to 50 carbon atoms on average in a cyclic, branched-, or straight-chain configuration and optionally includes one or more heteroatoms; an oil phase; a water phase; and an antimicrobial; wherein the vinyl polymer is insoluble or sparingly soluble in the water phase.

41. (AMENDED) A tissue antiseptic composition comprising: an oil phase; a water phase; an antimicrobial; and a vinyl polymer that is insoluble or sparingly soluble in the water phase; wherein the vinyl polymer comprises the reaction product of monomers comprising:

about 60 wt-% to about 90 wt-% of at least one monoethylenically unsaturated alkyl (meth)acrylate monomer having the formula:



wherein:

Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

Page 7 of 19

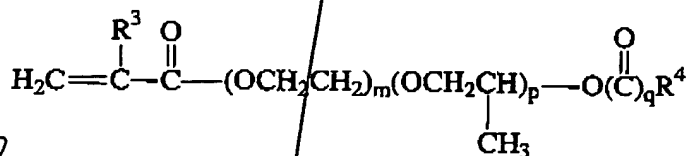
Serial No.: 09/966,511

Confirmation No.: 4740

Filed: 28 September 2001

For: WATER-IN-OIL EMULSIONS WITH ETHYLENE OXIDE GROUPS, COMPOSITIONS, AND METHODS

R^1 is H or CH_3 ; and
 R^2 is a linear, branched, or cyclic alkyl group optionally including one or more heteroatoms; and
 about 10 wt-% to about 40 wt-% of at least one monoethylenically unsaturated poly(alkylene oxide) (meth)acrylic monomer having the formula:



wherein:

m is at least 2;

p is 0 to 50;

q is 0 or 1;

 R^3 is H or CH_3 ; and R^4 is hydrogen or linear or branched alkyl and/or aryl groups;

with the proviso that the isopropylene oxide groups (the "p" groups) and the ethylene oxide groups (the "m" groups) are arranged in a reversed, alternating, random, or block configuration.

42. (AMENDED) A personal care composition comprising a water-in-oil emulsion comprising: a vinyl polymer comprising ethylene oxide-containing side chains and alkyl-Y-containing side chains, wherein Y is O or NR, wherein R is H or CH_3 , and wherein the alkyl group of the alkyl-Y-containing side chain has at least 4 carbon atoms on average in a cyclic, branched-, or straight-chain configuration and optionally includes one or more heteroatoms; an oil phase; and a water phase; wherein the vinyl polymer is insoluble or sparingly soluble in the water phase.

Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

Page 8 of 19

Serial N.: 09/966,511

Confirmation No.: 4740

Filed: 28 September 2001

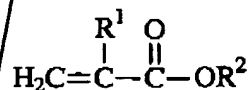
For: WATER-IN-OIL EMULSIONS WITH ETHYLENE OXIDE GROUPS, COMPOSITIONS, AND METHODS

B7

48. (AMENDED) A personal care composition comprising a water-in-oil emulsion comprising: a vinyl polymer comprising ethylene oxide-containing side chains and alkoxy-containing side chains, wherein the alkyl group of the alkoxy-containing side chain has 4 to 50 carbon atoms on average in a cyclic, branched-, or straight-chain configuration and optionally includes one or more heteroatoms; an oil phase; and a water phase; wherein the vinyl polymer is insoluble or sparingly soluble in the water phase.

49. (AMENDED) A personal care composition comprising a water-in-oil emulsion comprising: an oil phase; a water phase; and a vinyl polymer that is insoluble or sparingly soluble in the water phase; wherein the vinyl polymer comprises the reaction product of monomers comprising:

about 60 wt-% to about 90 wt-% of at least one monoethylenically unsaturated alkyl (meth)acrylate monomer having the formula:



wherein:

R¹ is H or CH₃; and

R² is a linear, branched, or cyclic alkyl group optionally including one or more heteroatoms; and

about 10 wt-% to about 40 wt-% of at least one monoethylenically unsaturated poly(alkylene oxide) (meth)acrylic monomer having the formula:

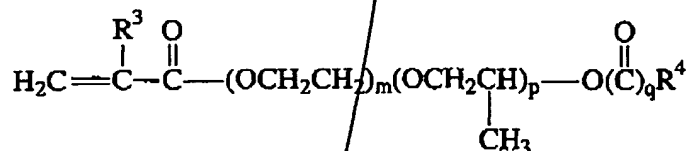
Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

Page 9 of 19

Serial No.: 09/966,511

Confirmation No.: 4740

Filed: 28 September 2001

For: WATER-IN-OIL EMULSIONS WITH ETHYLENE OXIDE GROUPS, COMPOSITIONS, AND METHODS

wherein:

m is at least 2;

p is 0 to 50;

q is 0 or 1;

R³ is H or CH₃; andR⁴ is hydrogen or linear or branched alkyl and/or aryl groups;

with the proviso that the isopropylene oxide groups (the "p" groups) and the ethylene oxide groups (the "m" groups) are arranged in a reversed, alternating, random, or block configuration.

- B7
cont
C2
50. (AMENDED) A transdermal drug delivery composition comprising a water-in-oil emulsion comprising: a vinyl polymer comprising ethylene oxide-containing side chains and alkyl-Y-containing side chains, wherein Y is O or NR, wherein R is H or CH₃, and wherein the alkyl group of the alkyl-Y-containing side chain has at least 4 carbon atoms on average in a cyclic, branched-, or straight-chain configuration and optionally includes one or more heteroatoms; an oil phase; a water phase; and a pharmaceutical agent; wherein the vinyl polymer is insoluble or sparingly soluble in the water phase.
51. (AMENDED) A transdermal drug delivery composition comprising a water-in-oil emulsion comprising: a vinyl polymer comprising ethylene oxide-containing side chains and alkoxy-containing side chains, wherein the alkyl group of the alkoxy-

Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

Page 10 of 19

Serial No.: 09/966,511

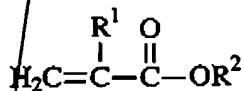
Confirmation No.: 4740

Filed: 28 September 2001

For: WATER-IN-OIL EMULSIONS WITH ETHYLENE OXIDE GROUPS, COMPOSITIONS, AND METHODS

containing side chain has 4 to 50 carbon atoms on average in a cyclic, branched-, or straight-chain configuration and optionally includes one or more heteroatoms; an oil phase; a water phase; and a pharmaceutical agent; wherein the vinyl polymer is insoluble or sparingly soluble in the water phase.

- B7
Cont
52. (AMENDED) A transdermal drug delivery composition comprising a water-in-oil emulsion comprising: an oil phase; a water phase; a pharmaceutical agent; and a vinyl polymer that is insoluble or sparingly soluble in the water phase; wherein the vinyl polymer comprises the reaction product of monomers comprising:
about 60 wt-% to about 90 wt-% of at least one monoethylenically unsaturated alkyl (meth)acrylate monomer having the formula:

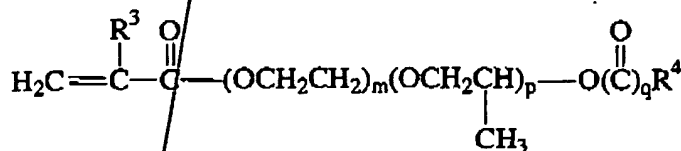


wherein:

R^1 is H or CH_3 ; and

R^2 is a linear, branched, or cyclic alkyl group optionally including one or more heteroatoms; and

about 10 wt-% to about 40 wt-% of at least one monoethylenically unsaturated poly(alkylene oxide) (meth)acrylic monomer having the formula:



wherein:

m is at least 2;

Amendment and Response Under 37 C.F.R. §1.116 - Expedited Examining Procedure

Page 11 of 19

Serial No.: 09/966,511

Confirmation No.: 4740

Filed: 28 September 2001


For: WATER-IN-OIL EMULSIONS WITH ETHYLENE OXIDE GROUPS, COMPOSITIONS, AND METHODSB7
Contd

p is 0 to 50;

q is 0 or 1;

 R^3 is H or CH_3 ; and R^4 is hydrogen or linear or branched alkyl and/or aryl groups;

with the proviso that the isopropylene oxide groups (the "p" groups) and the ethylene oxide groups (the "m" groups) are arranged in a reversed, alternating, random, or block configuration.

A large, stylized handwritten signature is written over the text. To the right of the signature, the letters 'C2' are handwritten.